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n i.e.	Application No.	Applicant(s)
Notice of Allowability	•	
	09/898,986 Examiner	YAMAZAKI ET AL. Art Unit
	Laura M. Schillinger	2813
The MAILING DATE of this communication appearable claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) (NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RICO of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t	plication. If not included will be mailed in due course. THIS
1. X This communication is responsive to 6/20/05.		
2. X The allowed claim(s) is/are 1,2,6,7,38,46 and 55-63.		
 3. Acknowledgment is made of a claim for foreign priority und a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		
2. ☑ Certified copies of the priority documents have been received in Application No. <u>08/890,591</u> .		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMETHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1.6 each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	E Nighting of Information	Potent Application (PTO 152)
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		Patent Application (PTO-152)
	Paper No./Mail Da	te
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 	8), 7. 🛭 Examiner's Amend	ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Statem	ent of Reasons for Allowance
of Biological Material	9.	

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Cancel claims 11-16 and 27-37.

Allowable Subject Matter

Claims 1-2, 6-7, 38, 46, 55-63 are allowed.

The following is an examiner's statement of reasons for allowance:

In reference to claim 1, Miyasaka et al teaches a method of manufacturing a semiconductor device, comprising the steps of:

forming first and second semiconductor islands on an insulating surface (Fig.26 (N-Channel TFT; P-Channel TFT)

introducing ions of a p-type impurity into at least a portion of only said first semiconductor island without mass separation wherein said portion is to become a channel region of a thin film transistor (Col.28, lines: 1-10 and Col.30, lines: 30-45); subjecting said first and second semiconductor islands to a thermal oxidization process to form a thermal oxide film on the first and second semiconductor islands (Abs., lines: 1-5)

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wherein said p-type impurity is incorporated into the thermal oxide film formed on said first semiconductor island (Col. 16, lines: 35-45-ion implanted after formation of the oxide will necessarily result in having the impurities incorporated into the oxide).

However, Miyaska fails to teach nor suggest in combination with the recited elements of claim 1, wherein a concentration of said p-type impurity monotonically decreases from a first portion distant from an upper surface of the first semiconductor island to a second portion close to the upper surface in a depthwise direction of the first semiconductor island. That is, prior art fails to teach wherein the impurities decrease from the bottom of the impurity region to the top. Consequently, claim 1 contains allowable subject matter. Claim 55 contains the same allowable subject matter and therefore is also deemed to be allowable, claims 2, 6-7, 38, 46, and 56-63 depend from allowed claims 1 and 55 and act only to further narrow the allowable subject matter. Therefore these claims are also deemed to be allowable over prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura M. Schillinger whose telephone number is (571) 272-1697. The examiner can normally be reached on M-T, R-F 7:00-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W. Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

09/02/05

Laura M Schillinger Primary Examiner Art Unit 2813